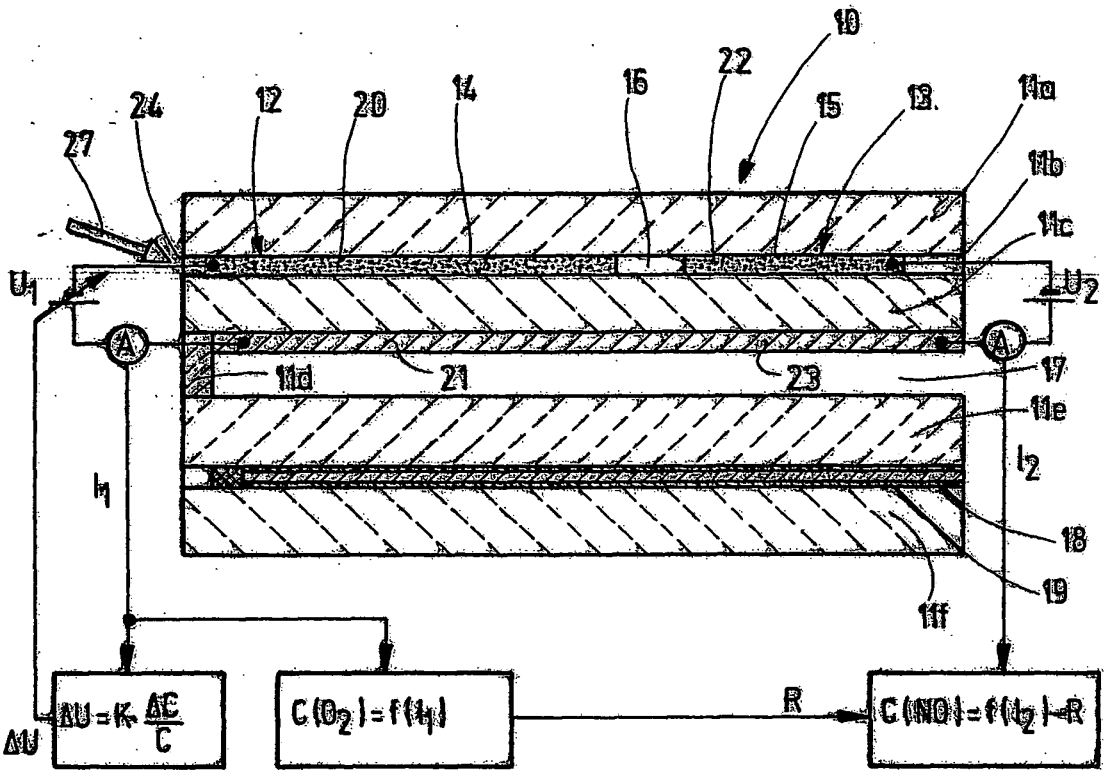
10
22
24
12
20
14
16
15
13
11a
27
11b
11c
U1
U2
A
A
11d
21
23
17
11e
l1
l2
18
19
11f
ΔU = K · ΔE / C
ΔU
C(O2) = f(l1)
R
C(NO) = f(l2) – R

Fig.1

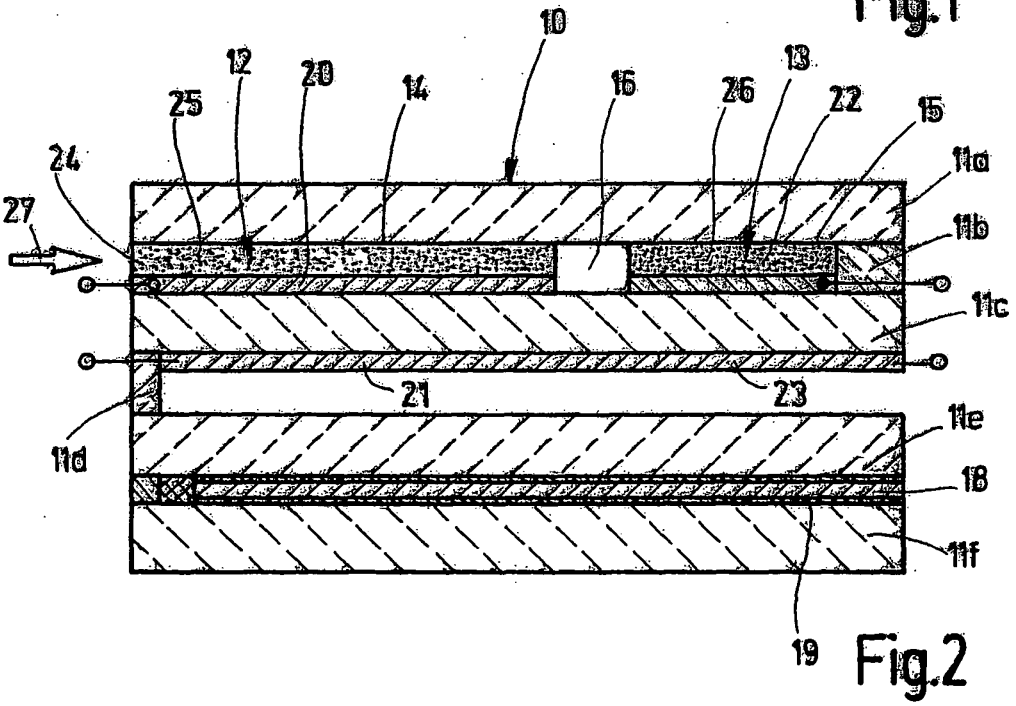
10
12
20
14
16
13
25
26
22
15
24
11a
27
11b
11c
21
23
11d
11e
18
11f
19

Fig.2

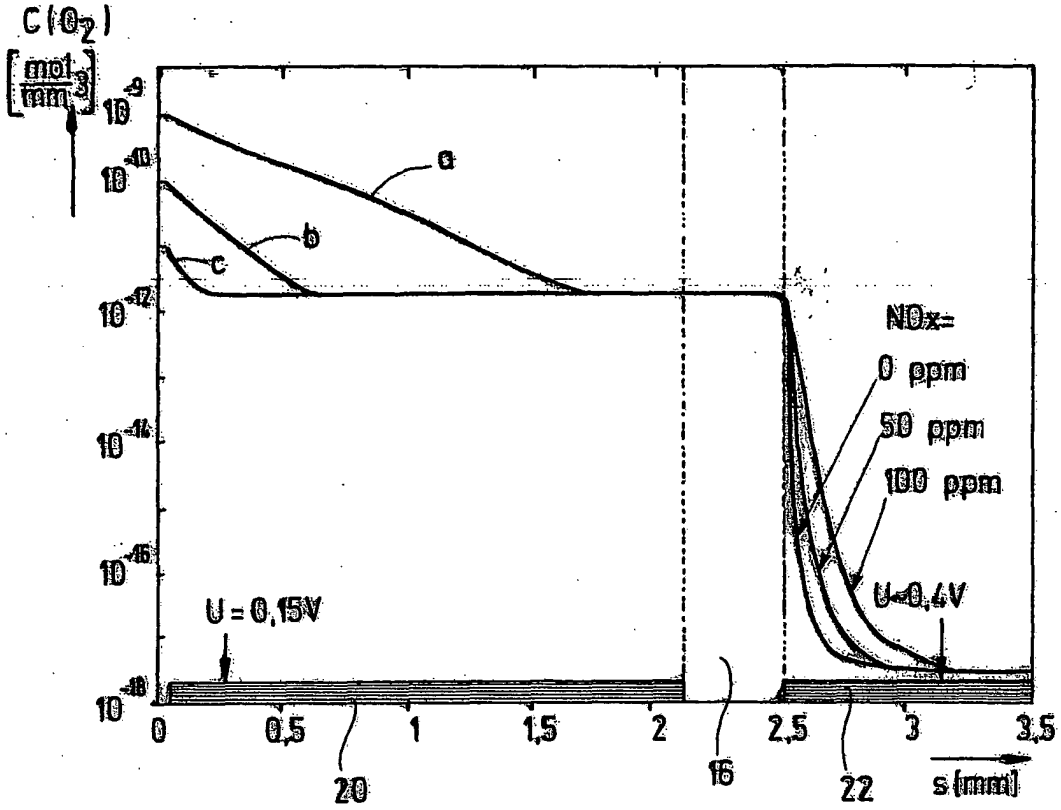
C(O2)
[mol/mm3]
10-9
10-10
10-12
10-14
10-16
10-18
a
b
c
NOx=
0 ppm
50 ppm
100 ppm
U=0,4V
U = 0,15V
0
0,5
1
1,5
2
2,5
3
3,5
20
16
22
s (mm)

Fig.3

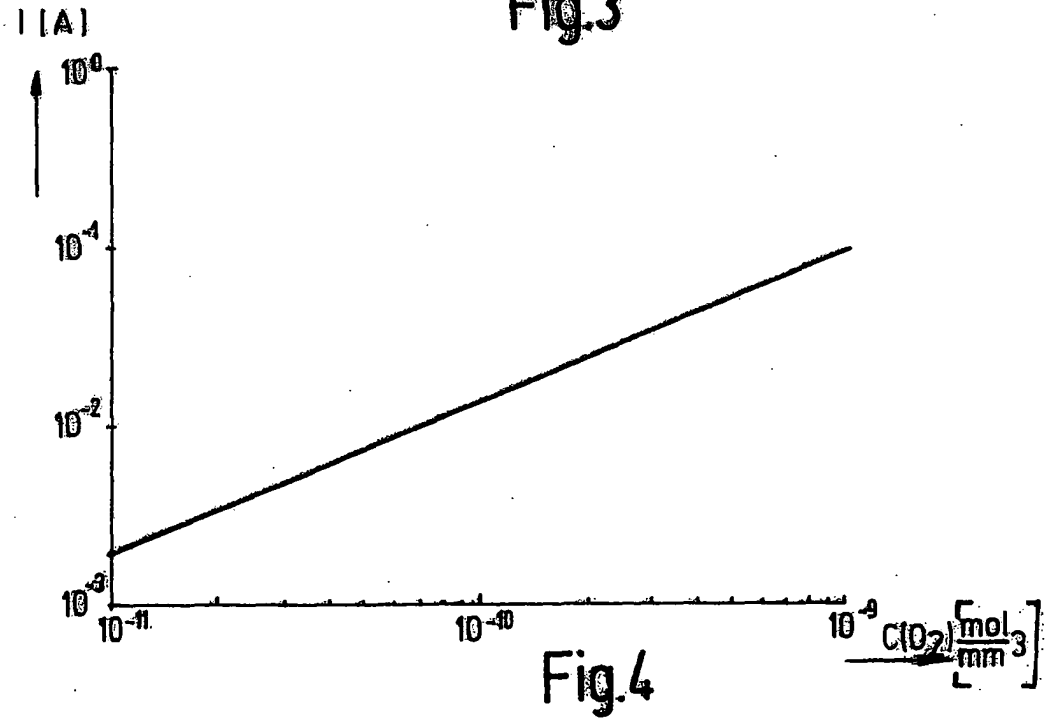
I (A)
10^0
10^-1
10^-2
10^-3
10^-11
10^-10
10^-9
C(O2) [mol/mm3]

Fig.4

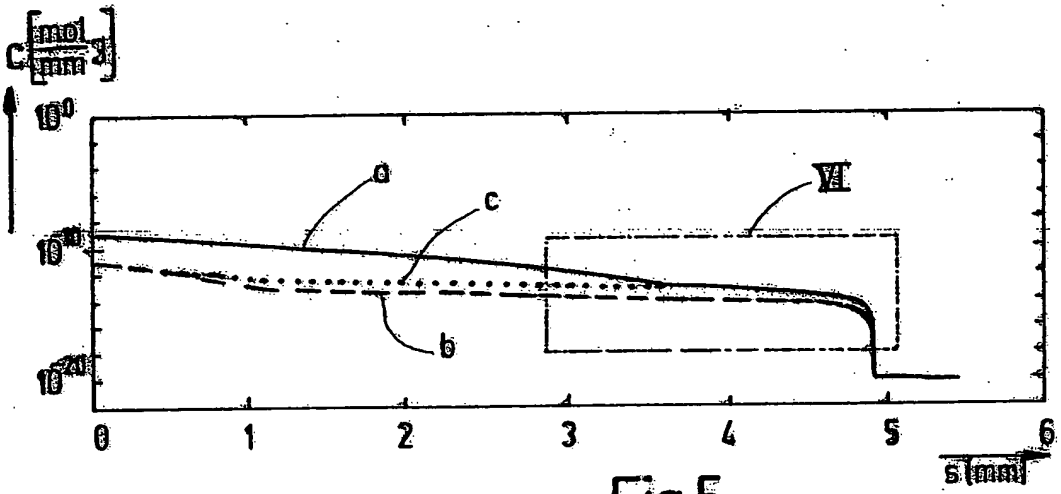

Fig.5

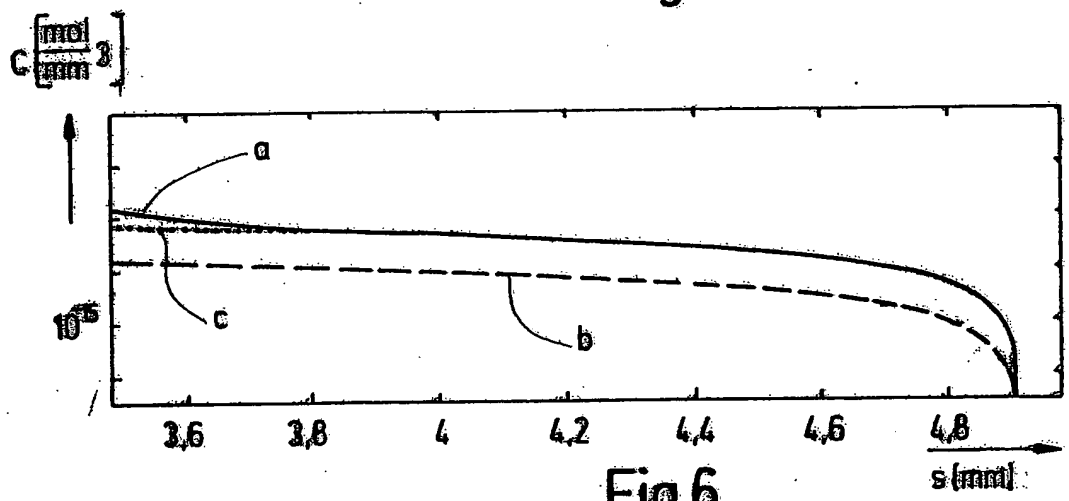

Fig.6

a: $U_1 = 0{,}2V$ and $C = 10^{-9}\ \frac{mol}{mm^3}$

b: $U_1 = 0{,}2V$ and $C = 10^{-11}\ \frac{mol}{mm^3}$

c: $U_1 = 0{,}172V$ and $C = 10^{-11}\ \frac{mol}{mm^3}$